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Department of Energy

**Ohio Field Office
Fernald Area Office**

P. O. Box 538705
Cincinnati, Ohio 45253-8705
(513) 648-3155



DEC 17 1997

DOE-0245-98

**Mr. James A. Saric, Remedial Project Manager
U.S. Environmental Protection Agency
Region V-SRF-5J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590**

**Mr. Tom Schneider, Project Manager
Ohio Environmental Protection Agency
401 East 5th Street
Dayton, Ohio 45402-2911**

Dear Mr. Saric and Mr. Schneider:

**KEY REVISIONS MADE TO AREA 2, PHASE I EXCAVATION PACKAGE BETWEEN 95
PERCENT DESIGN AND CERTIFIED FOR CONSTRUCTION DESIGN**

- References:**
- 1) Letter, from Reising to Saric and Schneider, "Contract
DE-AC24-92OR21972, Certified for Construction Technical
Specifications and Construction Drawings for Area 2, Phase I
Excavation Package," dated December 4, 1997.**
 - 2) Letter, from Reising to Saric and Schneider, "Extension Request:
Operable Units 2 and 5, dated June 27, 1997.**

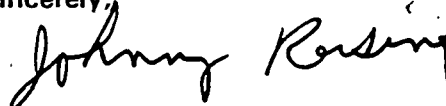
As per your request, the purpose of this letter is to transmit a summary of the changes incorporated into the Southern Waste Units (SWU) Excavation technical specifications and construction drawings between the draft 95 percent design and the Certified-for-Construction (CFC) design. On December 4, 1997, the CFC technical specification and construction drawings were submitted, for review and approval, to the U.S. Environmental Protection Agency (U.S. EPA) and Ohio Environmental Protection Agency (OEPA) (Reference 1). This letter supplements the December 4, 1997, transmittal. Additionally, although not specifically indicated in the referenced December 4, 1997, transmittal letter, the transmittal of the CFC technical specifications and construction drawings for the Area 2, Phase I (A2P1) work represents the completion of the milestone

for Operable Unit 2 (OU2), titled, "Final Design for Southern Waste Units and Area 2, Phase I." This milestone was scheduled to be completed by February 16, 1998, (Reference 2). Separately, two additional copies of the CFC technical specifications and drawings for A2P1 are being forwarded to the OEPA, as requested.

On October 23, 1997, a draft 95 percent set of construction drawings and technical specifications for the SWU Excavation Package were submitted to the U.S. EPA, and OEPA, for review and comment, as part of the Integrated Remedial Design Package (IRDP) for A2P1. The construction drawings and technical specifications were then developed by the Fernald Environmental Management Project (FEMP) to a final CFC level and incorporated into the SWU/On-Site Disposal Facility (SWU/OSDF) Phase II Request for Proposal (RFP). The RFP was posted on the FEMP website on November 21, 1997.

If you should have any questions, please contact Robert Janke at (513) 648-3124.

Sincerely,



Johnny W. Reising
Fernald Remedial Action
Project Manager

FEMP:R.J. Janke

Enclosure: As stated

cc w/enc:

N. Hallein, EM-42/CLOV
G. Jablonowski, USEPA-V, 5HRE-8J
R. Beaumier, TPSS/DEIR, OEPA-Columbus
T. Schneider, OEPA-Dayton (3 copies total of encs.)
M. Davis, ANL
F. Bell, ATSDR
D. S. Ward, GeoTrans
R. Vandegrift, ODOH
F. Barker, Tetra Tech
D. Carr, FDF/52-2
J. Chiou, FDF/52-5
T. Hagen, FDF/65-2
J. Harmon, FDF/90
T. Klimek, FDF/52-5
P. Riley, FDF/52-5
AR Coordinator/78

cc w/o enc:

R. Heck, FDF/2
S. Hinnefeld, FDF/2
EDC, FDF/52-7

Summary of Revisions to SWU Excavation Design
December 15, 1997

On November 23, 1997, a draft IRDP for A2PI was submitted to the DOE and regulatory agencies for review and comment. After submission of that package, the Fernald Environmental Management Project (FEMP) continued to revise and develop the construction drawings and technical specifications to the Certified-for-Construction (CFC) level for incorporation into an RFP. The RFP was issued in late November and CFC drawings and specifications were sent to the EPA/OEPA on December 4, 1997. Below is a list of major changes made during development of the CFC package (*comments for clarification are in italics*):

- Excavation contractor will not be responsible for the woodchip stockpile. *FDF will be responsible for the woodchip stockpile.*
- Revised the traffic plan and added details for the traffic control system.
- Deleted decommissioning of Retention Basins #1 & #2. *This work will be performed by others at a later time, after the completion of the SWU excavation contract, which is scheduled to expire December 31, 2000.*
- Deleted SP-3 stockpile from contractor's scope of work. *This stockpile will be excavated by others at a later date.*
- Deleted supplemental excavation, pre-certification and certification. *These activities will be performed by others after completion of the excavation contract*
- Clarified the dust control requirements for excavation contractor. This included explicitly adding requirement to control dust during specified times including weekends and holidays.
- Added requirement to segregate materials for protective layers, select materials, and contouring layers for OSDF placement.
- Deleted requirement for HDPE liner for above WAC material loading area.
- Added removal of 12" of material from below bottom of OSDF east and west impacted material stockpiles.
- Revised design for special material transfer area; replaced HDPE with geotextile .
- Revised excavation of the above WAC material in the IFP
- Revised Grading Plan 2 to indicate partial South Field (East and West) and partial AFP Excavation (Top and Bottom).
- Revised Lead Contaminated Soil excavation approach notes and typical section.

A detailed list of changes made to the construction drawings is presented on Exhibit A. A detailed list of changes made to the technical specifications is presented on Exhibit B:

Exhibit A**Changes to Southern Waste Units Site Preparation Construction Drawings from the 95% Design to the CFC Design****1. Title Sheet; Sheet X0001**

- a. Retitled OSDF East/West Impacted Material Debris Stockpile.
- b. Re-configured OSDF West Impacted Debris Stockpile.
- c. Removed SP3 Impacted Material Stockpile from Contractor's work area.
- d. Added OSDF Debris Transfer Area.
- e. Revised revision blocks.

2. Drawing Index; Sheet X0002

- a. Revised the revision number for all drawings.
- b. Revised the title for sheet G0009.
- c. Revised revision blocks.

3. Legend and General Notes; Sheet X0003

- a. Revised symbology for Dust Control Limits.
- b. Revised symbology for Limit of Work.
- c. Added symbology for Orange Construction Fence and Yellow Radiological Fence.
- d. Revised symbology for Silt Fence.
- e. Deleted symbology for Siltation Berm.
- f. Combined General Notes 6 and 12.
- g. Revised revision blocks.

4. Stockpile Locations and Traffic Routes; Sheet G0001

- a. Deleted Impacted Material Stockpile Table.
- b. Added legend defining different areas.
- c. Added symbology for different areas.
- d. Added clean road from OSDF to OSDF Borrow Area.
- e. Added location of traffic crossings and type.
- f. Added Limits of Dust Control.
- g. Revised Notes.
- h. Revised revision blocks.

5. Master Site Plan - Sheet G0002

- a. Revised Construction and Radiological Fencing.
- b. Revised Above WAC Area.
- c. Revised revision blocks.

6. Benchmarks and Baseline Location Plan; Sheet G0003

- a. Added Baseline E.
- b. Revised revision blocks.

7. Existing Conditions and Monitoring Well Improvements Plan; Sheet G0004

- a. Revised radiological fencing.
- b. Revised notes.
- c. Revised revision blocks.

8. Excavation Grading Plan - 1; G0005

- a. Revised Above WAC Area.
- b. Revised radiological fencing.
- c. Revised notes.
- d. Revised revision blocks.

9. Excavation Grading Plan, Above WAC Material; G0006

- a. Added note directing contractor to excavate Above WAC Material according to details on drawing.
- b. Revised Above WAC Area.
- c. Deleted General Excavation on Top of Above WAC Material typical section.
- d. Revised Above WAC Material Excavation Approach typical section and notes.
- e. Added Baseline E and Sections 2 + 50 and 4 + 00.
- f. Deleted existing radiological fencing.
- g. Revised Limits of Above WAC Material.
- h. Revised revision blocks.

10. Excavation Grading Plan - 2; G0007

- a. Revised notes.
- b. Revised grading to indicate partial South Field and partial AFP Excavation.
- c. Revised revision blocks.

11. Excavation Grading Plan, Lead Contaminated Soil; G0008

- a. Revised notes.
- b. Revised Lead Contaminated Soil Excavation Approach notes and typical section.
- c. Revised cross-section 0 + 20.
- d. Deleted note in middle of sheet.
- e. Revised revision blocks.

12. Excavation Grading Plan - 3; G0009

- a. Revised title of sheet.
- b. Revised notes.
- c. Revised existing background to reflect changes to Excavation Grading Plan - 2.
- d. Revised radiological fence.
- e. Revised grading to match Excavation Grading Plan - 2 changes.
- f. Revised revision blocks.

13. Cross-sections; G0010 thru G0017

- a. Revised proposed grading to reflect changes to Excavation Grading Plans 2 and 3.
- b. Revised Above WAC Area.
- c. Relabeled lines to reflect changes to Excavation Grading Plans 2 and 3.
- d. Revised revision blocks.

14. Details, Sheet 1 of 1; G0018

- a. Revised Special Material Transfer Area detail.
- b. Deleted Construction/Radiological Fence detail and Pipe Trench detail.
- c. Revised Section A of Detail 3.
- d. Revised revision blocks.

15. Material Documentation Plan; G0019

- a. Revised note 3 table.
- b. Revised Above WAC Material Tracking Location Boundary Area.
- c. Deleted Non-Impacted Material Stockpile, SP3 Impacted Material Stockpile and Woodchip Stockpile Material Tracking Location Boundaries.
- d. Revised Retention Basin 1 and Retention Basin 2 Material Tracking Location Boundary.
- e. Revised revision blocks.

Exhibit B

**Changes to Southern Waste Units Site Preparation Technical Specifications from the 95%
Design to the CFC design**

*All section numbers and articles are taken from the 95% technical specifications; the changes are
reflected in the CFC version of the specs.*

02050

- Part 2, A moved to Part 3
- 3.2.A.3 - deleted
- 3.2.A.2 - moved to 3.2.A.3 and replaced with "Perform topographic surveys of areas to be excavated prior to construction activities."

02150

- Renamed from Site Preparation to Traffic Control
- 1.1.D - deleted; contractor no longer responsible for the woodchip stockpile
- 1.2.D - deleted; 02850 no longer a related section
- 1.3 - all references deleted except for D, ODOT Construction and Material Specification
- 1.4.A.4 - deleted; planned traffic routes around and through certified areas no longer in the traffic control plan
- 1.4.A.6 - last sentence deleted; no longer giving number of crossings for bid purposes
- 1.4.A - added a requirement for the traffic control plan - detailed drawings depicting the location of traffic signal system
- 1.6 DEFINITIONS - added definition on the types of crossings
- 2.1 - added 2.1.E and 2.1.F - materials needed for different types of crossings
- 3.3.A - no longer installing and relocating fencing; excavation contractor must examine existing fencing
- 3.3.C - added requirement to install rad fence around the above WAC area as directed by the CM; deleted the lead contaminated soil area
- 3.6 - deleted MAINTENANCE OF THE EXISTING WOODCHIP STOCKPILE; changed to MATERIAL HAUL CROSSINGS
- 3.7 EQUIPMENT PARKING - added

02205

- 1.1.B - deleted decommissioning of retention basins 1 & 2
- 1.1.D - added stockpiles to list of possible sources of special materials during excavation

- 1.1.F - deleted hauling of lead material and unloading; unloading changed to staging; deleted requirement to provide containers for lead material
- 1.1.G - deleted supplemental excavation
- 1.2 RELATED SECTIONS AND PLANS - added OSDF Phase II technical specifications
- 1.3. REFERENCES - deleted A (SEP); deleted D (site prep package); deleted E (geotechnical report); deleted F (ODNR); deleted G (49CFR171-173)
- 1.3 REFERENCES - added two additional reference documents: PT-0007 and ODOT Construction and Material Specifications
- 1.4.A - required integration of Excavation Work Plan into the Safe Work Plan
- 1.4.A.1 - added requirement for Excavation Work Plan to include separation of material by categories
- 1.4.A.2 - deleted reference to supplemental excavation and precertification and certification
- 1.4.A.3 - revised wording for clarification
- 1.4.A.4 - added explicit requirement of coordination of personnel in field
- 1.4.A.6 - added above WAC material
- 1.4.B - deleted submittal on metal containers for lead material
- 1.4.C - deleted submittal for geomembrane liner
- 1.7.B - added more information on debris that is unclassified impacted material; added reference to criteria of debris in accordance with IMPP and WAC attainment plan
- 1.7.D - included debris in above WAC material
- 1.7.E - deleted reason material need special handling; added item 12. Acid Bricks
- 1.7.F - deleted separate definition of stockpiles
- 1.7.G - deleted separate definition of sediment
- 2.1 MATERIALS - added aggregate base as a material
- 2.1.A - deleted rope fence as a material
- 2.1.B - deleted posts for rope fence as a material
- 2.1.C - deleted signs and posts for rad control areas as a material
- 2.1.D - deleted geomembrane liner for special material transfer area as a material
- 2.1.E - changed dimensions of metal boxes; FDF will provide the boxes
- 2.2.A - delete requirement for haul equipment to have automatic load cover; requirement provided elsewhere in spec
- 2.2.C - revised text to improve clarity; also added dimensions of the Impacted Material Haul Road
- 3.1 GENERAL REQUIREMENTS - added traffic control requirements; added ability for FDF and agencies to take samples; added segregation of materials by category
- 3.1.A - deleted establishment of site boundaries and access controls
- 3.1.C - added Interceptor Ditches #1 and #2 as part of erosion and sediment control

- to be performed
- 3.1.F - added more details regarding the requirements for dust control by contractor
- 3.1.I - added details on signs and posts
- 3.1.J - added SWMP as governing water management also
- 3.1.L - deleted categories of material defined in IMPP
- 3.1.N - moved to become 3.1.M.6
- 3.1.M - added item 7 to include requirement for vehicles to minimize time in areas; stay on road as much as possible
- 3.1.Q.1 - deleted SP-3 stockpile
- 3.1.Q.3 - added more detail for dust control
- 3.1.S - deleted sampling for pre-certification and certification; added areas where no sampling is required
- 3.1.V.2 - revised ground stump/organic material to be less than 1/4 of volume of truckloads; reduced from 1/3
- 3.1.Y - added discussion on the special material transfer area
- 3.2.B - deleted exception for impacted material stockpile areas
- 3.2.D - deleted allowance for thinner lift thicknesses
- 3.2.G - added requirements for materials and protective layers, special materials, and contouring layers for OSDF placement
- 3.3.C - revised to require 30 days notice to FDF before beginning lead excavation; changed from 7 days
- 3.3.D - deleted delivery of metal containers - FDF will provide; deleted containers requirements for loading and fastening
- 3.3.H - added requirement for providing access and culvert to lead transfer area
- 3.4.F - added requirements for anchor trench for HDPE
- 3.4.I - deleted HDPE liner for above WAC loading area
- 3.4.J - deleted statement that others may be hauling to OU-1 stockpile
- 3.4.K.3 - revised to require material to be placed in stockpile, added that location is to be designated by CM
- 3.4.K.4 - added requirement to repair stockpile structures at no additional cost to FDF
- 3.5 SPECIAL MATERIAL EXCAVATION - add statement that FDF will provide containers for special materials except for PACM
- 3.5.A - deleted "hailed", replaced with "loaded, transferred, and stored"
- 3.6.A - added stockpiles are not going to be monitored, material excavated goes to OSDF
- 3.6.B - deleted reference to drawings for stockpile locations
- 3.6 EXCAVATION OF THE IMPACTED MATERIAL STOCKPILES - added removal of 12" below OSDF east and west impacted material stockpiles
- 3.7 REMOVAL OF SEDIMENT AND DECOMMISSIONING OF RETENTION BASINS - deleted

- **3.8 SUPPLEMENTAL EXCAVATION, PRE-CERTIFICATION AND CERTIFICATION - deleted**

02210

- **Title - deleted "Separation and Packaging of"**
- **1.1 SCOPE - added more detail to the PACM requirements description**
- **1.2.B - deleted 2212 as a related section**
- **1.3 REFERENCES - added WAC attainment plan as a reference**
- **1.3 REFERENCES - deleted B (OAC 3701-34); deleted C (SEP)**
- **1.5.A - added three requirements for PACM plan: method to inform workers of presence of PACM in the area; method to delineate area and restrict access to area; identification of asbestos competent personnel**
- **1.5.A.1 - delete requirement for method of determination of whether the PACM is friable or non-friable**
- **1.5.A.4 - revised to include loading, hauling and unloading**
- **1.5.A.5 - revised to include loading, hauling and unloading**
- **1.5.A.10 - deleted**
- **1.5.A.11 - deleted**
- **3.1 APPLICATION - added that FDF has provided proper notification of disturbance of inactive asbestos area; added that asbestos competent person must be on site during any activity involving asbestos**
- **3.1.A - added 4 more items that the contractor is responsible for**
- **3.1.B - changed requirements for friable PACM - some can now go to OSDF; items 7, 9, and 10 were added, 8 was changed**
- **3.1.B.2 - added that friable PACM can also be encapsulated, as well as wetted; delete last sentence - friable PACM does not necessarily go to the special material transfer area**
- **3.1.C - friable PACM is considered category 5 material and is to be placed as such, in accordance with IMPP (worded differently)**
- **3.1.D - moved to be included as something required of the contractor**
- **added - during activities, the PACM area must be walked and observed, and areas outside of designated PACM areas must also be observed to look for PACM**

02212

- **1.2 RELATED SECTIONS delete C (2275) and D (Part 6)**
- **1.3 REFERENCES - delete all; no references**
- **1.4.A - deleted SWU-008 (woodchip stockpile) and NAR-008 (Impacted material stockpile at OSDF sedimentation basin) MTLs; ADD above WAC excavation area (no #)**

- 3.1.A - deleted first sentence about each piece of hauling equipment having unique alpha-numeric identifier - specified elsewhere
- 3.1.B - deleted verbal as a method of providing information for documentation

- Attachment 1 - added notes 1-3 again at bottom of page

02275

- 1.1.2 - added requirement to inspect AFP
- 1.2 - deleted A (2150) and C(2212) and E(Part 6) as related sections
- 1.3 - deleted A(ODNR) and B(SEP) and C(WAC attainment plant) and D(ODOT) construction and material specs as references; ADDED 40CFR261
- 1.4 - added C information about the geomembrane liner and inspection/installation of AFP and interceptor ditch
- 2.1.C - added special material transfer area as a place for geotextile fabric
- 2.1.F - added detailed requirements for crusting agent
- 3.1.A - added reference to the SWMP and Systems plan
- 3.1.B - added details on sumps that extend into GMA and requirement for HDPE
- 3.6.A - changed ODOT item to 601.07 (from 601)
- 3.8 - added discussion on maintenance of AFP

02850

- 1.2.B - deleted Part 6 as a related section
- 1.5.C - added oil and sediment removal
- 1.5.F - added to submit methods to remove and containerize oil
- 1.6.A - revised maximum flow to west pump station is 25 gpm - not 50
- 2.A - deleted pressure washer or suitable washing equipment - they are telling us what they propose to use
- 2.C - limited excess water to remain equal to or less than 25 gpm
- 3.1.F - changed flow limit to 25 gpm from 50
- 3.1.I - added to provide criteria for removal of oil; FDF will provide containers and disposal

02900

- 1.3.E - deleted Federal Seed Act as a reference

- 1.4.A.1 - deleted submittal for proposed seed mix and manufacturer product data on crusting agent
- 2.1.A - deleted labeling in accordance with Federal Seed Act
- 3.1.C - deleted temporary seeding before pre-certification and after certification
- 3.4 - renamed as WARRANTY
- 3.5 - renamed as ACCEPTANCE; incorporated 3.4.C